

Title (en)
WATER-ABSORBENT CELLULAR CROSSLINKED HYDROGEL POLYMERS

Title (de)
WASSERABSORBIERENDE, SCHAUMFÖRMIGE, VERNETZTE HYDROGEL-POLYMERE

Title (fr)
POLYMERES HYDROGELS ABSORBANT L'EAU, EN MOUSSE, RETICULES

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Application
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Abstract (en)
[origin: DE19540951A1] The invention concerns water-absorbent cellular crosslinked-polymer materials produced by (I) foaming a polymerizable aqueous mixture containing: (a) acid-group-containing monoethylenically unsaturated monomers which have been neutralized to at least 50 mol %; (b) optionally, other monoethylenically unsaturated monomers; (c) crosslinking agents; (d) initiators; (e) 0.1 to 20 % by wt. of at least one surfactant; (f) optionally, at least one solubilizer and (g) optionally, thickeners, foam stabilizers, polymerization-control agents, fillers and/or cell-nucleation agents, the foaming being carried out by dispersing throughout the mixture fine bubbles of a gas which is inert to radicals, and (II) polymerizing the foamed mixture to form a cellular hydrogel and adjusting the water content of the cellular hydrogel to 1 to 45 % by wt. The invention also concerns methods of producing such polymer materials and their use in personal-hygiene articles used to absorb body fluids and in bandage material used to cover injuries.

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IPC 8 full level
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WO2012156386A1; WO2012158745A1; US8796343B2; US7838567B2; US7923479B2; WO2016040093A1; WO2004087603A1; US9279048B2; WO2012159032A1; EP1659153A1; US8540974B2; WO2016040096A1; WO2011061282A1; WO2012156346A1; WO2012158858A1; WO2011061315A1; WO2012156242A2; WO2012158734A1; US9574019B2; US8283515B2; US8349452B2; US8449981B2; US9217080B2; WO2012156385A1; US9198996B2; WO2016040092A1; WO2016040094A1

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